U.S. Army
Edgewood Chemical Biological Center
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News Release

Edgewood CB Center Researchers Secure Bio Detection Patent

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Aberdeen Proving Ground, Md. – The Edgewood Chemical Biological Center (ECBC), located at the Edgewood Area of Aberdeen Proving Ground, Md., announced that its researchers have secured a patent for a novel technique with application for biological agent detection technology.

The patent, which was awarded on December 31, 2002, is for "methods and apparatus for detection lesion-induced resonances in deoxyribonucleic acid via millimeter or submillimeter wave spectroscopy." This patent describes a new spectroscopic method for the diagnosis of DNA damage, which can be utilized in equipment used to detect the presence of biological weapons, a technology area that is critical to protecting warfighters in hostile battlefield situations.

"This patent represents the hard work and dedication of our employees," said Mr. Jim Zarzycki, Technical Director of ECBC. "We expend serious amounts of effort to build our nation's chemical and biological defense capabilities. This patent is proof of our solid, novel approaches."

Scientists from ECBC's Research and Technology directorate partnered with personnel from the Army Research Office and the Stephens Institute of Technology in the work leading to this patent.

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ECBC is the U.S. Army's principal research and development center for chemical and biological defense technology, engineering and services. ECBC has achieved major technological advances for national defense, civilian needs and industrial competitiveness, with a long and distinguished history of providing the Armed Forces with quality systems and outstanding customer service. ECBC is located at the Edgewood Area of Aberdeen Proving Ground, Md. For more information about the Edgewood Chemical Biological Center, please visit our Web site at http://edgewood.sbccom.army.mil or call (410) 436-4347.